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Attorney Docket: 112.P14061

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**IN THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer, and Assignee reserves the right to claim this subject matter in a continuing application:

1. -29. (Canceled)

30. (Currently Amended) An optical chassis, comprising:

a shell body having an accommodation space defining a plurality of inside walls;  
a plurality of reflection planes formed on at least a portion of the plurality of inside walls; and  
one or more reflective plating films ~~formed~~ directly coated on at least a portion of the plurality of reflection planes to reflect light.

31. (Previously Presented) The optical chassis of claim 30, and further comprising:

a light source coupled to the body to transmit light to one or more of the reflection planes.

32. (Previously Presented) The optical chassis of claim 30, wherein the optical chassis comprises at least a portion of an optical scanner.

33. (Previously Presented) The optical chassis of claim 30, wherein the shell body and plurality of reflection planes are formed as a single piece.

34. (Previously Presented) The optical chassis of claim 30, wherein the shell body further comprises a lid body and a major body; wherein the lid body and the major body are formed as separate pieces and subsequently assembled.

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35. (Previously Presented) The optical chassis of claim 30, wherein at least two of the plurality of inside walls are substantially opposed, and wherein a reflection plane is formed on each of the at least two substantially opposed inside walls.

36. (Previously Presented) The optical chassis of claim 30, wherein the one or more plating films comprise one or more of: silver, chromium, aluminum, and/or platinum, and/or alloys thereof.

37. (Previously Presented) The optical chassis of claim 30, wherein at least a portion of the reflection planes have substantially corresponding angles.

38. (Previously Presented) The optical chassis of claim 36, wherein the one or more plating films are further coated with one or more protection materials.

39. (Previously Presented) The optical chassis of claim 38, wherein the protection materials comprise one or more of: PE plastic films and/or macromolecular material.

40. (Currently Amended) A method of forming an optical chassis, comprising:

forming a shell body to have an accommodation space defining a plurality of inside walls;  
forming a plurality of reflection planes on at least a portion of the plurality of inside walls; and  
depositing one or more plating films directly on at least a portion of the plurality of reflection planes, said deposited plating films being capable of reflecting light.

41. (Previously Presented) The method of claim 40, wherein forming said shell body further comprises forming from one or more of: injection molding, die-casting, squeeze forming, milling, CNC machining, and/or combinations thereof.

42. (Previously Presented) The method of claim 40, and further comprising forming the shell body and plurality of reflection planes as a single piece.

43. (Previously Presented) The method of claim 40, wherein the shell body comprises a lid body and a major body, the method further comprising forming the lid body and the major body as separate pieces; and

assembling said shell body from said separate pieces.

44. (Previously Presented) The method of claim 40, and further comprising forming at least two of the plurality of inside walls to be substantially opposed, and forming a reflection plane on each of the at least two substantially opposed inside walls.

45. (Previously Presented) The method of claim 40, wherein said depositing one or more plating films substantially comprises one or more of: evaporation sputtering, sputtering and/or chemical deposition.

46. (Previously Presented) The method of claim 45, wherein the plating films comprise one or more of: silver, chromium, aluminum, and/or platinum, and/or alloys thereof.

47. (Previously Presented) The method of claim 40, and further comprising forming one or more protection materials on at least a portion of the plating films.

48. (Previously Presented) The method of claim 47, wherein the protection materials comprise one or more of: PE plastic films and/or macromolecular material.

49. (Previously Presented) The method of claim 40, wherein the optical chassis comprises at least a portion of an optical scanner.

50. (Currently Amended) An optical scanner, comprising:

- a shell body having an accommodation space defining at least two inside walls;
- at least one reflection plane formed on the at least two inside walls;
- a light source coupled to the body to illuminate at least one of the reflection planes;
- a lens set to focus light reflected by the one or more reflection planes; and
- one or more plating films ~~formed~~ directly coated on the reflection planes to reflect light.

51. (Previously Presented) The optical scanner of claim 50, wherein the shell body and plurality of reflection planes are formed as a single piece.

52. (Previously Presented) The optical scanner of claim 50, wherein the shell body comprises a lid body and a major body, wherein the lid body and the major body are formed as separate pieces and subsequently assembled.

53. (Previously Presented) The optical scanner of claim 50, wherein at least two of the plurality of inside walls are substantially opposed, and wherein a reflection plane is formed on each of the at least two substantially opposed inside walls.

54. (Previously Presented) The optical scanner of claim 50, wherein the one or more plating films comprise one or more of: silver, chromium, aluminum, and/or platinum, and/or alloys thereof.

55. (Previously Presented) The optical scanner of claim 50, wherein at least a portion of the reflection planes have substantially corresponding angles.

56. (Previously Presented) The optical scanner of claim 50, wherein the one or more plating films are further coated with one or more protection materials.

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57. (Previously Presented) The optical scanner of claim 56, wherein the protection materials comprise one or more of: PE plastic films and/or macromolecular material.

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**Status of Claims**

Claims 30-57 are pending in the above-referenced patent application. In this response, claims 30, 40 and 50 have been amended, and no claims have been added or cancelled.

**Claim Rejections – 35 U.S.C §103(a)**

In the Final Office Action, dated January 3, 2006, and the Advisory Action, dated July 3, 2006, the Examiner rejected claims 30-57 under 35 USC 103(a) as being unpatentable over "Applicant's admitted prior art" (hereinafter, AAPA) in combination with Vent (U.S. Patent No. 5,489,457). These rejections are respectfully traversed.

**AAPA v. Vent**

**Failure of references to teach all the limitations**

Although Assignee does not agree with the Examiner's characterization of Vent or what Applicant has admitted as prior art, it is respectfully submitted that AAPA, whether viewed alone or in combination with Vent, does not contain all of the elements of the pending claims, as amended, and, therefore, do not render the pending claims obvious. For example, none of AAPA or Vent teach or suggest all of the claim limitations, and the Examiner has made no showing that all of the claim limitations are present in these cited references, either expressly or inherently.

**Failure to teach reflection planes, reflective plating films**

As just an example, neither AAPA nor Vent teach or suggest "a plurality of reflection planes formed on at least a portion of the plurality of inside walls, and one or more reflective plating films directly coated on at least a portion of the plurality of reflection planes", as recited in claim 30, as amended. According to the Examiner, on page 2-3 of the Office Action, "Applicant's admitted prior art optical chassis comprises a shell body (141) having an accommodation space defining a plurality of inside walls; a plurality of reflection elements (mirrors 143) formed on at least a portion of the plurality of inside walls." However, The Examiner has mischaracterized this portion of the specification. For

example, quoting from "Description of the Prior Art", beginning on page 1, line 12 of the specification, "As the prior optical chassis 14 shown in Fig. 1 and Fig. 2, because the silver plated on the glass pieces constructs the reflection mirrors 143, it is necessary to fix the mirrors on the predetermined positions inside the shell body 141 by spring pieces 146, fixture devices or in accordance with screw fixtures." There is no description throughout this section of the specification that any reflection planes are formed on at least a portion of the plurality of inside walls, or, further, that reflective plating films are directly coated on at least a portion of the plurality of reflection planes. This portion of the specification clearly describes the mounting of mirrors on the chassis via spring pieces, fixture devices or screw fixtures, and does not teach or suggest reflection planes, or plating films directly coated on reflection planes. Therefore, AAPA fails to teach or suggest numerous elements of claim 30, as amended.

Additionally, Vent does not cure any of the multiple deficiencies noted above. Vent is directed toward a chrome film having an adhesive layer, which may allow the reflective tape to be adhered to a surface. Quoting from col 4:28 – col 4:31, "In the preferred embodiment of the present invention, the adhesive layer 25 it utilized to adhere the reflective tape to the opposing reflector surface". Vent does not teach or suggest reflective plating films directly coated on at least a portion of the plurality of reflection planes. Vent shows a reflective tape that may be adhered to a reflector surface. The reflective plating film is not directly coated the reflector surface, but, rather, the reflective film is formed on an adhesive layer, which may then be applied to a surface in an additional formation step. Vent does not teach or suggest reflection planes, or plating films directly coated on reflection planes, and, therefore, fails to cure the deficiencies noted above.

Therefore, any resultant combination of Vent with AAPA, if successful, although Assignee does not accept that a successful combination of Vent with AAPA could be made, would still not result in the formation of reflective plating films directly coated on at least a portion of the plurality of reflection planes to reflect light, but, rather, would simply appear to result in the formation of an optical chassis with reflective tape adhered to one or more surfaces. It is, therefore, respectfully submitted that the

combination of Vent with AAPA, if successful, would still fail to provide all the elements of the rejected claims. Accordingly, the Examiner has failed to make a successful showing of obviousness.

**Conclusion - Claims are not Obvious**

Assignee respectfully submits that because a sufficient showing of obviousness has not been established, claims 30-57, as amended, are in a condition for allowance. It is noted that many other bases for traversing the rejection could be provided, but Assignee believes that this ground is sufficient. It is, therefore, respectfully requested that the Examiner enter the amendments to the claims, and allow these claims to proceed to allowance.